

DIGITAL HOME THEATER SYSTEM

HT-DL200

THIS APPLIANCE IS MANUFACTURED BY:



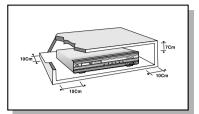
Instruction Manual

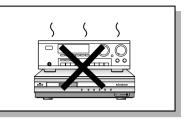






Precautions



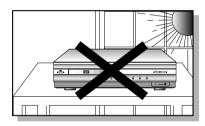


Ensure that the mains supply in your house complies whit that indicated on the identification sticker located at the back of your play. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7~10cm). Make sure the ventilation slots are not covered. Do not stack other, or heavy devices on top over the player. Do not place the player on amplifiers or other equipmentwhich may become hot. Before moving the player ensure the disc tray empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode dose not disconnect the electricity supply In order to separate the player completely from the mains, it has to be disconnected by unplugging the main plug, especially when left unused for a long period of time.

During thunderstorms, disconnect the main plug from the

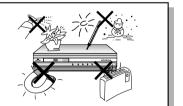
Main voltage peaks due to lightning could damage the unit.

socket.

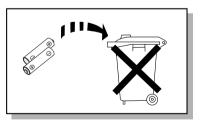


Do not expose the unit to direct sun radiation or other heat sources

This could lead to overheating and malfunction of the unit.



Protect the player from moisture(dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the player), and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...) disconnect the power cable from the mains electricity supply if the player malfunction. Your player is not intended for industrial use but for domestic purposes only. Use of this product is for personal use only. Condensation If your player or disc have been stored in a cold atmosphsre. as for example during transportation in the winter, wait for approximately 2 hours until they have reached room temperature.



The battery used in this product contains the chemicals that are harmful to the environment.

Do not dispose of batteries in the general household waster. It is recommended that the replacement of the battery should be done by technician

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE **KLASS 1 LASER APPARAT** PRODUCTO LASER CLASE 1



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID **EXPOSURE TO BEAM.**



This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.



This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.







DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.



DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this player is given on the rear panel of the player. (Your DVD player with the same regional code will only play DVDs that are labeld with identical region codes.)

Copy Protection

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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PRO LOGIC indicator

Tuning Down & Skip (I◄◄) buttons Function button Tuning up & Skip (►►I) buttons Volume control 1©I 66 Power (小) button \odot MMMM ڻ/I **DVD** -10 10 ö 5.1 Channel Speaker **Output Terminals** Video Output Connector **External Audio Component** Connect the TV's video input jacks (VIDEO Open/Close button Input Connector IN) to the VIDEO OUT connector. Headphone Jack **Disc Tray** LINEAR PCM indicator DSP **TUNER** indicator PBC Accessories indicator indicator **STEREO** indicator TITLE PROGRAM indicator indicator \square 8: D (DIGITAL) dts kHz LSSRS Video/Audio Cable AM Antenna FM Antenna Remote Control **DTS Disc indicator** SPEAKER System States Display indicator **DOLBY DIGITAL indicator** RADIO FREQUENCY

indicator

Front Panel



Stop (■) button -

Play/Pause (▶ ...) button



COMPONENT VIDEO **OUTPUT/INPUT** iacks

input jacks to these jacks.

Connect a TV with the component video

Voltage Selector(option)

ā

S-Video Output Connector If the TV is equipped with an S-Video input

connector (S-VIDEO IN), connect it to the

6

player's S-Video output jack.

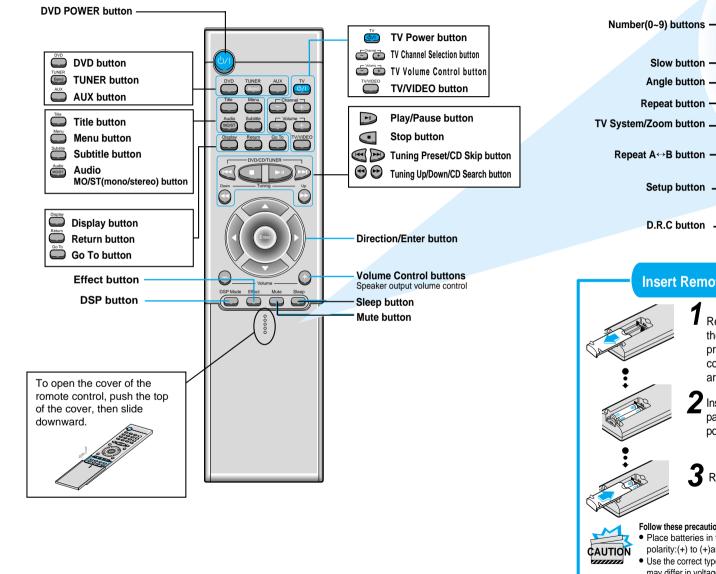
AM Antenna Connector

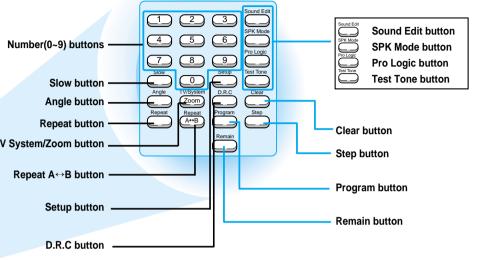
FM Antenna

Connector

User's Manual

Remote Control Unit





Insert Remote Batteries

Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.

Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and -).

3 Replace the battery cover.

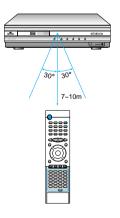
Follow these precautions to avoid leaking or cracking cells:

• Place batteries in the remote control so they match the polarity:(+) to (+)and (-)to (-).

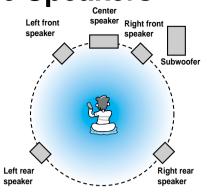
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

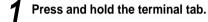
The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

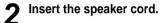




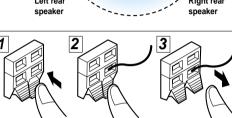


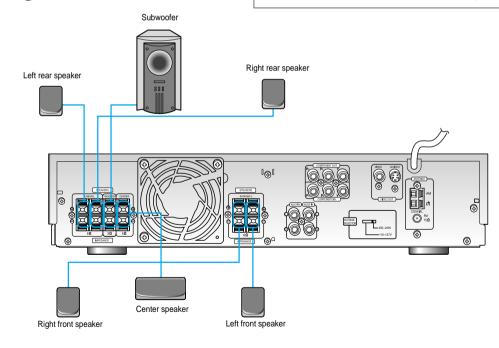
- Connect the satellite speakers, center speaker, and subwoofer to the terminls on the rear panel using speaker cords supplied.
- Connect the white cord to the red (+) terminal, and the black cord to the black (-) terminal respectively.





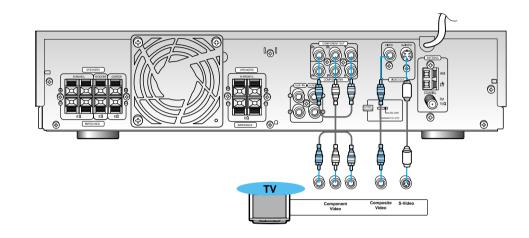
3 Release the finger.





for in-depth information about adjusting the delay time, see "Speaker Settings" on pages 30.





Composite Video (Good Quality)

Connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO IN jack on your television.

S-Video (Better Quality)

If you television is equipped with an S-Video input, connect an S-Video cable (not supplied) from the S-VIDEO OUT jack on the back panel of the system to the S-VIDEO IN jack on your television.

Component Video (Best Quality)

If your television is equipped with Component Video inputs, connect a component video cable (not supplied) from the Pr, Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.

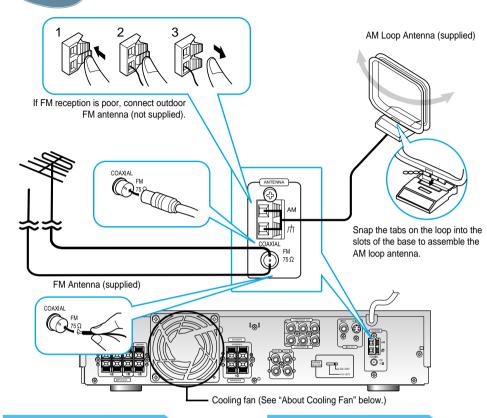


9

Note

Connecting the FM and AM(MW/LW) Antennas





FM antenna connection

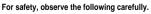
- 1. Connect the FM antenna supplied to the FM 75 Ω COAXIAL terminal as temporary measure.
- 2. Moderately strain the antenna wire and then fasten it to a wall or other rigid surface within a location where reception is good.
- If reception is poor, connect an outdoor antenna. Before attaching a 75Ω coaxial cable (with a standard type connector), disconnect the supplied FM antenna.

-(About the cooling fan)

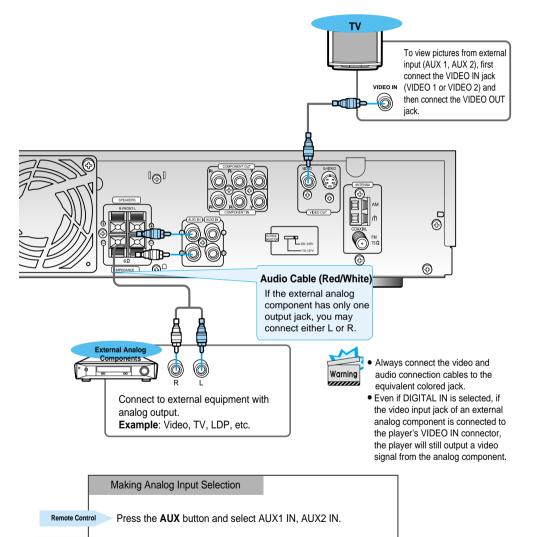
A cooling fan is mounted on the rear panel of the center unit to prevent abnormal temperature inside the center unit, thus assuring normal operation of the unit. The cooling fan automatically starts rotating to supply external cool air to the inside of the center unit when the internal temperature exceeds the specified limit.

AM(MW) antenna connection

- 1. Connect the AM loop antenna supplied to the AM and m terminals.
- 2. If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).



Make sure there is good ventilation around the center unit. Poor ventilation could overheat and damage the canter unit.
DO NOT block the cooling fan and the ventilation openings or holes. (If they are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)



Press the Function button and select AUX1 IN, AUX2 IN.

Main Unit

Connecting your System to the Power Supply

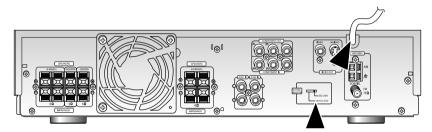
.

The main lead must be plugged into an appropriate socket.

Before plugging your system into a main socket, you must check the voltage.

Check the position of the voltage selector on the rear of the system (OPTIONAL). 1. Plug the main lead (marked AC Cord on the rear of the system) into an appropriate socket.

2. Press the On/Standby button to switch your DVD Player system on.



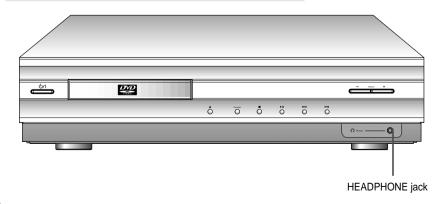
Listening on headphones

Use headphones for private listening pleasure (not supplied).

Connect the headphones to the HEADPHONES jack of the front panel.

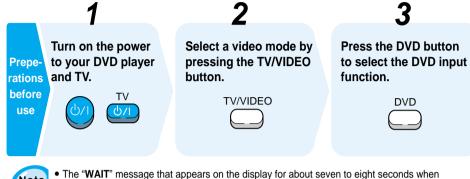
• No sound is produced from the speakers.

• To prevent hearing damage, do not raise the volume level excessively when using headphones.



Your DVD player is capable of playing DVD, VCD, and CD discs. User instructions may vary depending on the type of disc. Read the instructions carefully before use.

Before Using the DVD Player



- The "WAIT" message that appears on the display for about seven to eight seconds when turning on the power or selecting a DVD function indicates a stabilization period for optimizing the condition of your DVD player. While the message is being displayed, other buttons remain inactive.
 - When the power is not turned on, press down the Stop (■) button on the main unit for over 5 seconds.

The inside of the product will be initialized to its optimum state.

• If your TV model is not SAMSUNG, refer to "Remote Control Unit Setup" on page 28.

TV System Selection



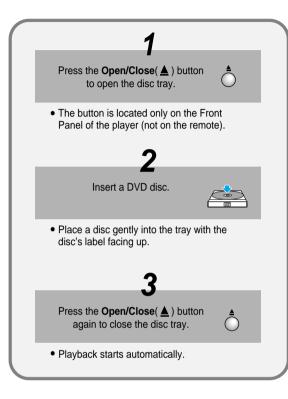
Press the TV System button while in stop mode.

- Each time the TV System button is pressed, "NTSC, PAL" are selected in this order.
- Different countries use different types of TV broadcast systems, video, audio and channel systems. Example : The player cannot playback PAL-encoded DVD with NTSC-TV.

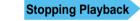
CD-R/RW playback compatibility

- Your DVD player can also play CD-R and CD-RW discs recorded in digital audio format. When recording your own CD-R or CD-RW discs, make sure that the recording session is properly terminated, or they will not be playable. (Depending on disc properties and recording quality, some CD-R/RW may not be playable.)
- CD-RW has a lower reflection rate than CD-R media and consequently it will take a longer to read CD-R discs.
- CD-RW discs recorded at high speed tend to be difficult for the DVD player to read. If the recording speed for the CD-RW disc is not predetermined, write it at low speed.



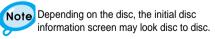






Press the Play/Pause (> 11) button during playback.

• To resume, press the Play/Pause (>II) button again.

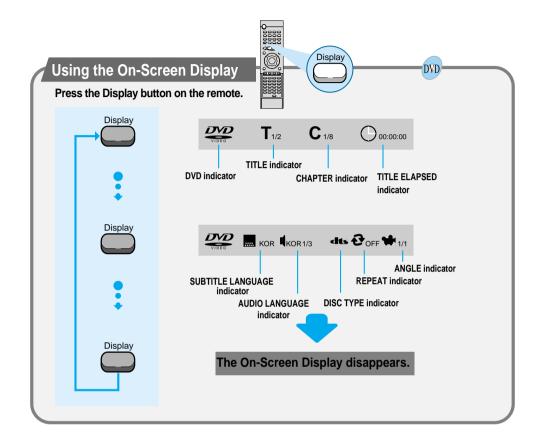


Press the Stop () button during playback.

 During playback, when the Stop (■) button is pressed, the position is stored in the memory, and ▶■ STOP is shown on the display.

When the Play/Pause () button or Return button is pressed subsequently, playback resumes from the position at which it was stopped.

• If the Stop (resume play' memory function is canceled, and STOP is shown on the display. When the Play/Pause () button is pressed, playback starts from the beginning.



What is a Title? A movie contained in a

What is a Chapter?

several smaller sections

Each Title on a DVD

disc is divided into

called "chapters".

DVD disc.

Turning the sound off temporarily?

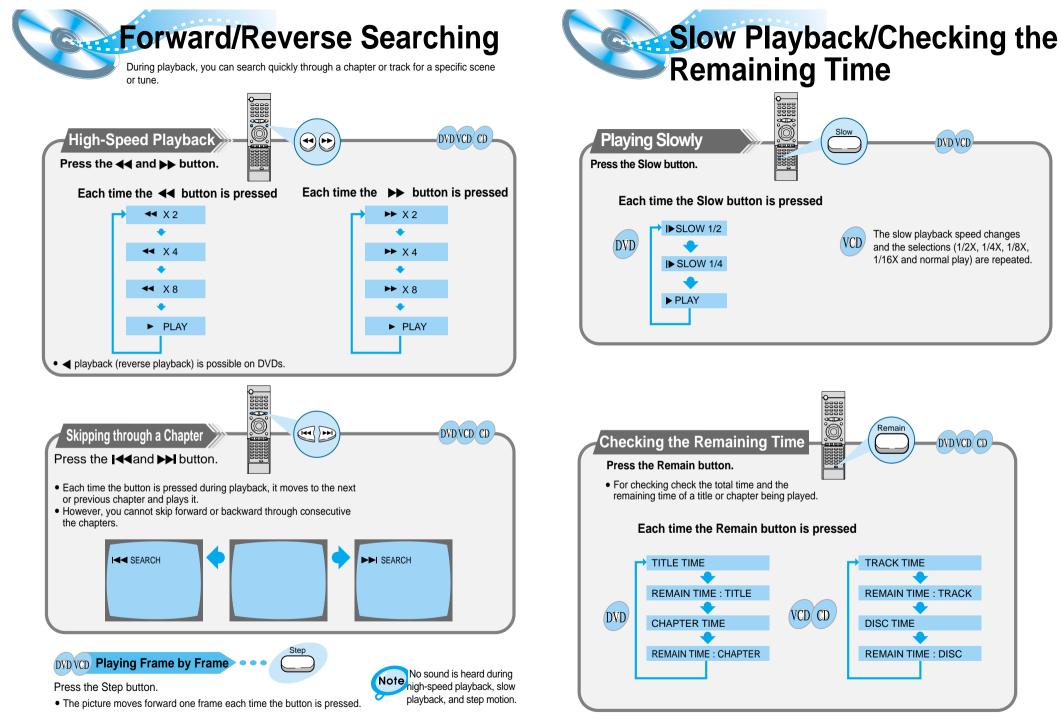
Press the Mute button during playback.

• This operation may be useful when you need to greet the guests or answer the telephone.



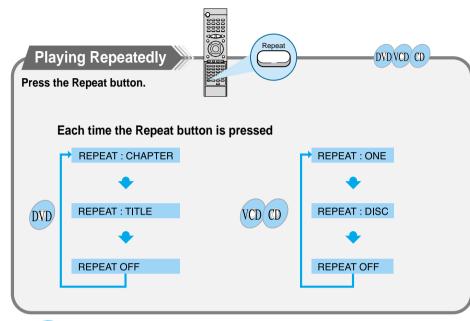
Note If the player is left for more than 3 minutes in pause mode, it will stop.

Mute

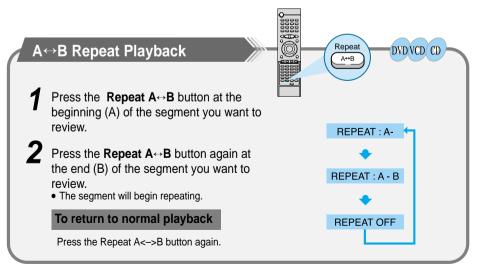




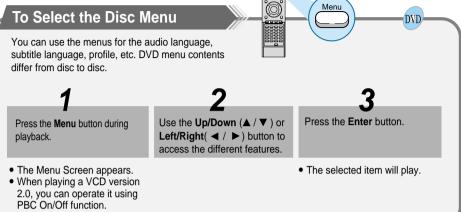
Repeat playback allows you to repeat a chapter, title, or track.

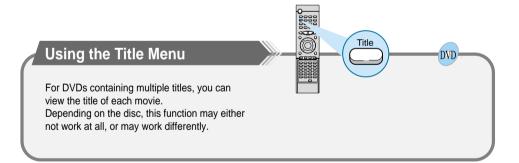


• Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on. To operate this feature, press the MENU button, and then select "PBC OFF".



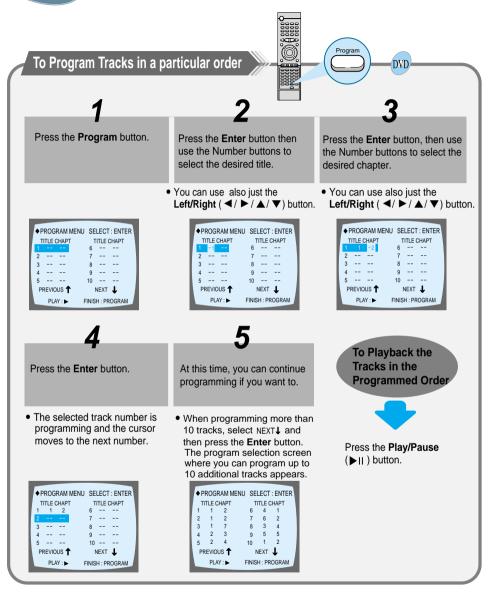


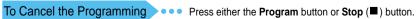


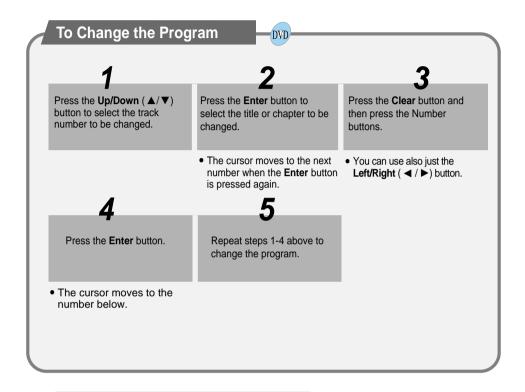


Program Playback

Use this function with video and music CDs to play the tracks in a particular order.



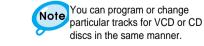




To delete the entire Program

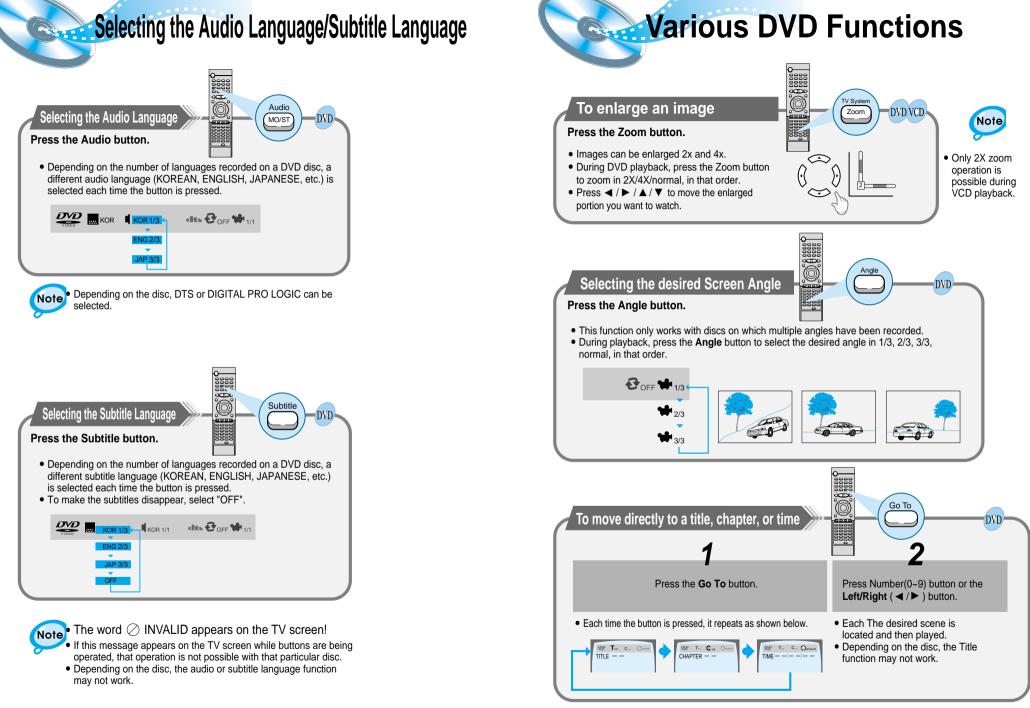
- Press the **Stop** (■) button twice during playback.
- Press the **Stop** (
- Press the Open/Close (▲) button on the main unit. The disc tray will open and then close. The program will then be deleted.

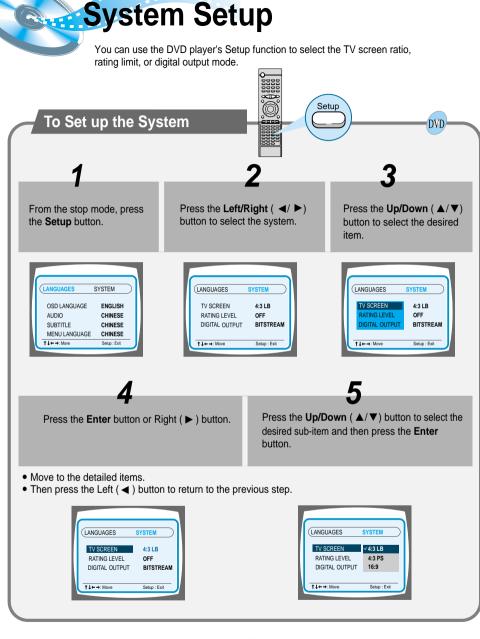
When you have entered a wrong number



Press the Clear button.

• When you want to delete a selection during programming, select the track (or chapter, or title) to be deleted and then press the **Clear** button.







TV SCREEN(TV SCREEN RATIO)

Select when you want to watch a 16:9 screen ratio DVD movie on a TV with a 4:3 ratio screen.

4:3LB	NGUAGES SYSTEM
4:3PS	IV SCREEN 4:3 LB RATING LEVEL OFF DIGITAL OUTPUT BITSTREAM
16:9	H++: Move Setup : Ext

You can see the full 16:9 picture, but black bars will appear at the top and bottom of the screen.

You can only view the central portion of the 16:9 screen.

You can view in wide screen but the top and bottom of the picture will be cut off.

• However if the movie is recorded in 4:3 ratio, you cannot view the full 16:9 picture with the above functions.

RATING LEVEL

4:3 LB

Paters - Erri

4:3 LB

Setup : Exit

4:3 LB OFF

OFF

LANGUAGES TV SCREEN

11++: Move

LANGUAGES

TV SCREEN

†∔⊷ →: Move

LANGUAGES

TV SCREEN

t ↓+ →: Move

RATING LEVEL

RATING LEVEL ++++

RATING LEVEL DIGITAL OUTPUT The Rating Level function works in conjunction with DVDs which have been assigned a rating, to help control the type of DVD that your family watches.

1. Select RATING LEVEL, then press the
Enter button.

- 2. Use the number(0~9) buttons to input a 4-digit password.
- The player's password is set to "7890" by default.

When the rating level password has been forgotten

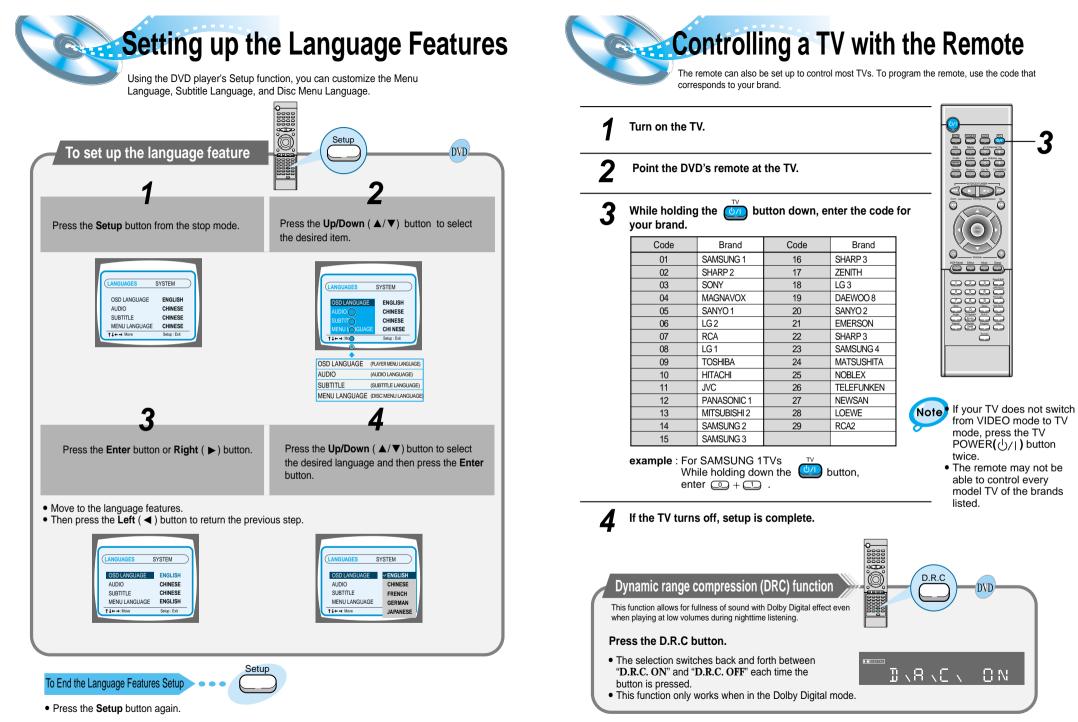
While the player is in the stop mode, hold the Stop (■) button down on the main unit for more than

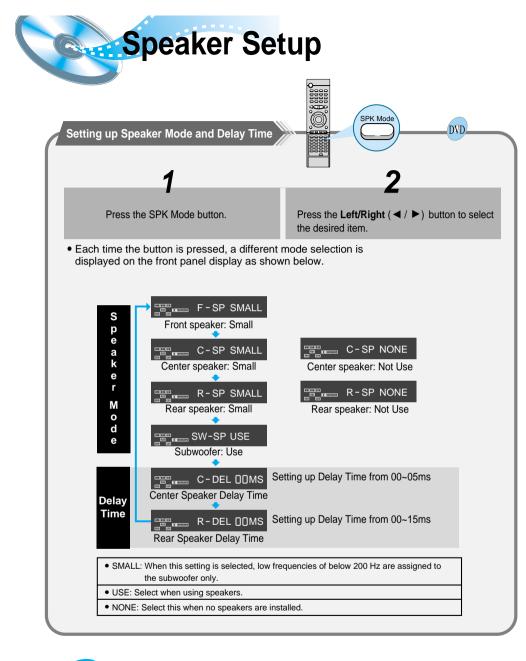
5 seconds.

- "INITIAL" appears on the display and all default settings will return to
 - Factory Preset.

3.Use the Up/Down (▲/▼) button to select either RATING LEVEL or NEW PASSWORD, and then press the Enter button.

- There are up to 8 rating levels on a disc.
- If LEVEL 6 is selected, a disc which contains rating LEVEL 7 and above cannot be played.
- If you select NEW PASSWORD, the screen changes and enables you to enter the new password.



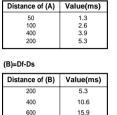


The display changes depending on the current audio output mode Note (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.).

To set the delay time

- When 5.1 Channel Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Rear Speaker to
- customize the sound to the acoustics of your room. Setting Center Speaker If the distance of Dc is equal to or longer than the
- distance of Df in the figure. set the mode as 0ms. Otherwise, change the setting according to the table on the table.
- Setting Rear Speakers If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

(A)=Df-Dc



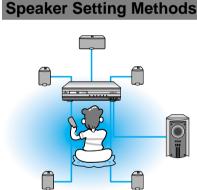
Ideal Center Speaker

Ideal Rear Speaker Position

- Arrange all speakers within a circle Df: Distance from front speakers to as shown in the figure.
- listening position Ds: Distance from rear speakers to listening position

Dc: Distance from center speaker to

listening position

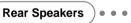


Front Speakers . . .

Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

Center Speaker . . .

Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.



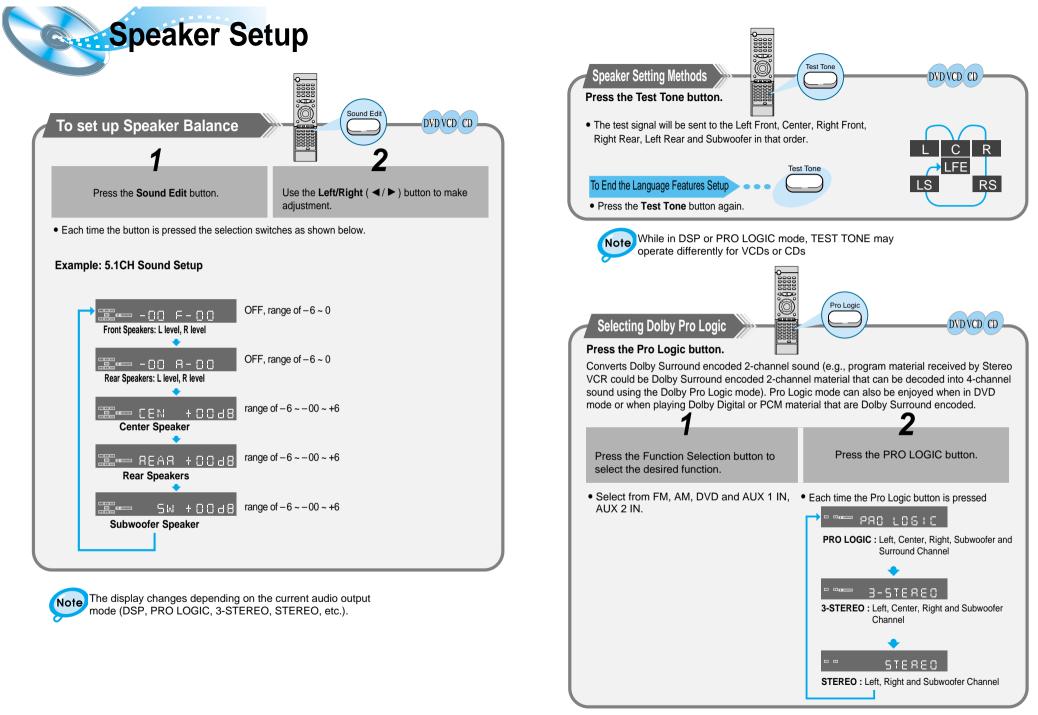
Set the rear speakers further back parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level.

If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.



Place the subwoofer at any convenient location within the vicinity of the listening position.





Creating Realistic Sound Fields



You can use the following surround to reproduce a realistic sound field.

Digital Multichannel Surround —Dolby Digital and DTS Digital Surround

Dolby Surround

Dolby Digital and DTS Digital Surround

To enjoy surround effectively, all the speakers need to be connected and activated.

Dolby Digital

Used to reproduce multichannel sound tracks of the software encoded with Dolby Digital (DOLBY).

Dolby Digital encoding method (so-called discrete 5.1 channel digital audio format)records and digitally compresses the left front channel,right front channel,center channel,left rear channel,right rear channel,and LFE channel signals (total 6 channels,but LFE channel is counted as 0.1 channel.Therefore,called 5.1 channel).

Since each channel is completely independent from the other channel signals to avoid interference, you can obtain much better sound quality with much stereo and surround effects.

In addition,Doiby Digital enables stereo rear sounds,and sets the cutoff frequency of the rear treble at 20 kHz,compared to 7 kHz for Dolby Pro Logic. These facts enhance the sound movement and being-there feelings much more than Dolby Pro Logic.

When the system detects Dolby Digital signals, the DOLBY DIGITAL indicator lights up on the display.

DTS Digital Surround

Used to reproduce multichannel sound tracks of the software encoded with DTS Digital Surround (

DTS Digital Surround is another discrete 5.1 channel digital audio format available on CD,LD,and DVD software. Compared to Dolby Digital,audio compression rate is relatively low.

This fact allows DTS Digital Surround format to add breadth and depth to the reproduced sounds. As a result, DTS Digital Surround features natural, solid and clear sound.

When the system detects DTS Digital Surround signals, the DTS indicator lights up on the display.

Dolby Surround

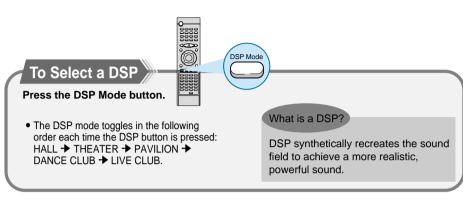
Used to reproduce sound tracks of the VCR tapes encoded with Dolby Surround (DC TOLBY SURROUND). This is only used for the sound sources coming through the AUX IN jacks.

Dolby Pro Logic and Dolby 3 Stereo

Dolby Surround encoding format records the left front channel, right front channel,center channel,and rear channel signals (total 4 channels)into 2 channels.

The **Dolby Pro Logic** decoder built in this system decodes these 2 channel signals into original 4 channel signals — matrix-based multichannel reproduction, and allows you to enjoy a realistic stereo sound in your listening room.

When one of Dolby Surround is selected, the PRO LOGIC indicator lights up on the display.



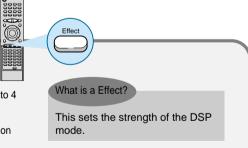


DSP mode cannot be selected when a microphone is connected.
When playing a DVD encoded in two or more channels, DSP mode cannot be selected.

To increase Effect level

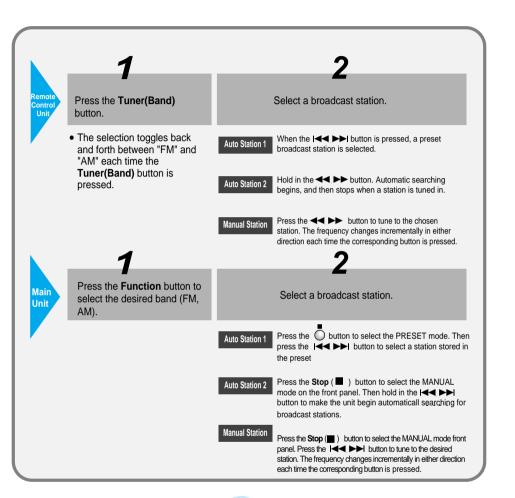
Press the Effect button.

- The effect level can be set in steps from 1 to 4 EFFECT1 → EFFECT2 → EFFECT3 → OFF(DEFAULT).
 Each time the button is pressed the selection moves to the next effect.
- The higher the number, the stronger the DSP surround effect will be.



Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992–1997 Dolby Laboratories, Inc. All rights reserved. Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. ©1996 Digital Theater Systems, Inc. All rights reserved. Listening to the Radio

You can listen to the chosen band (FM, AM broadcast stations) by using either the automatic tuning or manual tuning operation.



To Listen in Mono/Stereo
 Audio
 MO/ST

 Press the MO/ST button. (only FM)

 The selection toggles back and forth between "STEREO" and "MONO"

- The selection toggles back and forth between "STEREO" and "MOI each time the MO/ST button is pressed.
- In a poor reception areas, select Mono mode for a clear, interference-free broadcast.



You can store up to: 15 FM stations • FM ... Frequency Modulation • AM(MW) ... Medium Wave 15 AM stations Example: Presetting FM 89.1 in the memory 3 Use the **d** and **b** Select the MANUAL by Press the Tuner(Band) button and select the FM band. pressing the **Stop** (button to tune into 89.1 on the main unit. • The selection toggles back and forth between "FM" and "AM" each time the Tuner(Band) button is pressed. 1 0 12 89.10 5 6 Press the **Program** button. Use the **I** and **I** Press the **Program** button. button to select FM2. • The preset stations operation is completed. 8910 ™FM∂ 89 [™]⊢⊻ 8910 When using this feature for the first time, be sure to store the station in the preset memory at FM1 as the unit does not come preprogrammed with default presets.

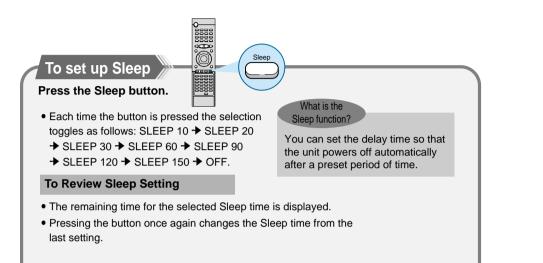
To change the Preset Stations

To store other Channels

- Store the changes while repeating steps 1 to 4 above.
- Repeat steps 3 to 4 above.







Problem	Check
The disc tray does not open.	 Is the disc installed with the label side facing up? Is the power cord plugged securely into the power outlet? Turn off the power to the unit by pressing the Power (U/I) button and turn it back on.
Disc does not play.	 Check the region number of the DVD. DVD discs purchased abroad may not be playable. This player cannot play CD-ROMs, DVD-ROMs, etc. Check the rating level of the DVD.
Playback does not start immediately when the Play/Pause button is pressed.	Check whether the disc has any scratch marks or is deformed?
No sound is produced.	 No sound is heard during high-speed playback, slow playback, and step motion playback modes. Are the speakers properly connected? Is the speaker Setup correctly customized? Is the disc severely damaged? The disc may be dirty. Wipe off fingerprints or dirt.
Sound can be heard only from a few speakers and not all six.	 When listening to a CD or radio, sound is output to the front speakers only (L/R). Select the "PRO LOGIC" option by pressing the Pro Logic button on the remote control unit to use all six speakers. Check whether your DVD disc is 5.1 CH compatible.
Picture does not appear; sound is not produced; the disc tray opens 2-5 seconds later.	• Was the player moved suddenly from a cold pace to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player after the condensation disappears.)
Sound quality is irregular.	Are the speaker cables loose?Is there any dirt or debris at the end of the speaker connector?
Dolby Digital 5.1 Channel Surround Sound is not being reproduced.	 Does the disc being played show the "Dolby Digital 5.1CH" mark ? 5.1-channel sound is reproduced only if the disc is recorded with 5.1 channel sound. Is the DVD player connected to the proper speakers?



Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.

Handling and Storing Discs

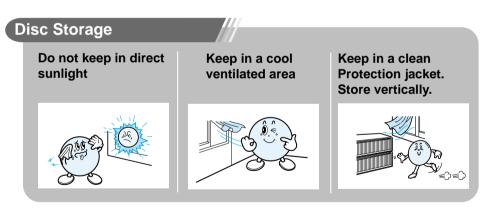


When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

• When cleaning, wipe gently from the inside to the outside of the disc.



Note Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.





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Do not allow the discs to become contaminated with dirt. • Do not load cracked discs or discs that are

scratched.

 The disc revolves but no picture appears. Picture shows interference and quality is poor. 	 Are the video cables properly connected? Is it the player in PAUSE mode? Is your TV's video format (NTSC/PAL) set correctly? Press the NTSC/PAL button once again to change the current selection. Is there any dirt on the disc, or is the disc damaged? It may not be possible to play some DVD discs due to poor manufacture. When a dark scene changes to a bright scene during playback, the screen may flicker vertically. Some disturbance is normal.
Remote control unit does not operate.	 Is the remote control being used within the appropriate distance and angle of operation for the unit? Are there any obstacles between the remote control unit and the remote control sensor? Are the batteries dead? Is it time to replace the batteries with new ones?
Audio or subtitle language does not operate.	 The audio or subtitle language features does not operate with DVDs that do not include multiple audio or subtitle languages.
The Menu button is pressed but the Menu screen does not appear.	 Is the remote control being used within the appropriate distance and angle of operation for the unit? Are the batteries dead? Does tje disc have a Menu?
The screen ratio cannot be changed.	• You can play 16:9 wide DVDs in 16:9 WIDE mode or 4:3 LETTER BOX mode or 4:3 PAN-SCAN mode; but 4:3 encoded DVDs only show in 4:3 ratio. Refer to the DVD disc jacket and then select the appropriate function.
The desired radio station cannot be tuned in.	 Is the antenna installed properly? When the antenna's input signal is weak, install an external FM antenna in an area with good reception quality.
The system is malfunctioning (the system does not work or no sound).	 While the player is in the stop mode, hold the Stop (■) button down on the main unit for over 5 seconds."INITIAL" appears on the display and all settings will return to the Factory Preset condition. The RESET function erases all settings; do not use this function unless necessary.

• Is the TV power turned on?

Check

Problem

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Disc Type and Protection



Usable Discs

Disc Types	Marks	Recording Types	Disc Size	Max. Playing Time
	DVD VIDEO	Audio + Video	12cm	Approx. 240 min. (Single-sided)
םעם			12011	Approx. 480 min. (Double-sided)
			8cm	Approx. 160 min. (Single-sided)
			Conn	Approx. 160 min. (Double-sided)
VIDEO-CD		Audio + Video	12cm	74 min.
	DIGITAL VIDEO		8cm	20 min.
		Audio	12cm	74 min.
AUDIO-CD DIGITAL AUDIO	DIGITĂL AUDIO		8cm	20 min.



Dolby Digital DTS Disc disc

Digital Audio disc

o Stereo disc

STEREO

NTSC broadcast system in USA, Canada, Japan, South Korea, etc. Brance, Germany, etc.

PAL

NTSC

Do not use the following types of disc!

- LD, CDG, CD-I, CD-ROM and DVD-ROM cannot be played on this player.
- DVD discs purchased abroad may not play on this player.

If such discs are played, a "WRONG REGION CODE" message appears on the TV screen.

G	Power Consumption	160W		
GE	Weight	9.1Kg		
N E	Dimensions	W 430mm x D 370mm x H 100mm		
R	Operating Temperature Range	+5°C~+35°C		
A	Operating Humidity Range	10%~75%		
-	Usable Sensitivity	10%~75%		
FΫ́	S/N Ratio	60dB		
F UNER	Distortion	0.5%		
	Usable Sensitivity	54dB		
	S/N Ratio	40dB		
MĔ	Distortion	2%		
VIDEO		2% Y:1.0Vp-p(75Ω load), Pr:0.70Vp-p(75Ω load)		
INPUT	Component Video	Pb:0.70Vp-p(75Ω load)		
,, 0	Composite Video	1.0Vp-p(75Ω load)		
V U	· ·	Y:1.0Vp-p(75Ω load)		
ΙŢ	Component Video	Pr:0.70Vp-p(75Ω load)		
		Pb:0.70Vp-p(75Ω load)		
0 U		Luminance Signal: 1.0Vp-p(75Ω load)		
ЧΤ	S-VIDEO	Color Signal: 0.286Vp-p(75Ω load)		
А	Front speaker output	50W x 2(6Ω)		
М	Center speaker output	50W(6Ω)		
P	Rear speaker output	50W x 2(6Ω)		
L	Subwoofer speaker output	100W(3Ω)		
F	Frequency range	20Hz~25KHz		
1	S/N Ratio	75dB		
I E	S/N Ratio Channel separation			
I E R		75dB		
_	Channel separation	75dB 50dB	r system	
_	Channel separation Input sensitivity	75dB 50dB (AUX)500mV		
R	Channel separation Input sensitivity	75dB 50dB (AUX)500mV 5.1ch speake	r system Subwoofer speaker 3Ω	
_	Channel separation Input sensitivity Speaker system	75dB 50dB (AUX)500mV 5.1ch speake Front/Center/Rear speaker	Subwoofer speaker	
R	Channel separation Input sensitivity Speaker system Impedance	75dB 50dB (AUX)500mV 5.1ch speake Front/Center/Rear speaker 6Ω x 5	Subwoofer speaker 3Ω	
R S P E A	Channel separation Input sensitivity Speaker system Impedance Frequency range	75dB 50dB (AUX)500mV 5.1ch speake Front/Center/Rear speaker 6Ω x 5 150Hz~18KHz	Subwoofer speaker 3Ω 45Hz~200Hz	
R S P E A K	Channel separation Input sensitivity Speaker system Impedance Frequency range Output sound pressure level	75dB 50dB (AUX)500mV 5.1ch speake Front/Center/Rear speaker 6Ω x 5 150Hz~18KHz 87dB/W/M	Subwoofer speaker 3Ω 45Hz~200Hz 86dB/W/M	
R S P E A K E	Channel separation Input sensitivity Speaker system Impedance Frequency range Output sound pressure level Rated input Maximum input	75dB 50dB (AUX)500mV 5.1ch speake Front/Center/Rear speaker 6Ω x 5 150Hz~18KHz 87dB/W/M 50W	Subwoofer speaker 3Ω 45Hz~200Hz 86dB/W/M 100W 200W	
R S P E A K	Channel separation Input sensitivity Speaker system Impedance Frequency range Output sound pressure level Rated input	75dB 50dB (AUX)500mV 5.1ch speake Front/Center/Rear speaker 6Ω x 5 150Hz~18KHz 87dB/W/M 50W 100W	Subwoofer speaker 3Ω 45Hz~200Hz 86dB/W/M 100W	
R S P E A K E	Channel separation Input sensitivity Speaker system Impedance Frequency range Output sound pressure level Rated input Maximum input	75dB 50dB (AUX)500mV 5.1ch speake Front/Center/Rear speaker 6Ω x 5 150Hz~18KHz 87dB/W/M 50W 100W Front/Rear 138mm x 202mm x 140mm	Subwoofer speaker 3Ω 45Hz~200Hz 86dB/W/M 100W 200W	

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Note on Terminology

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left, from the right, etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
РСМ	An acronym for Pulse Code Modulation - another name for digital audio.
PBC (PLAYBACK CONTROL)	This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
VIDEO CD	Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0).
dts	You can enjoy 5.1 (or 6) channels of high fidelity digital sound from various digital input sources such as laser discs, DVD, CD etc. DTS provides a realistic, clear surround sound that has not previously been available from conventional surround sound.
D I G I T A L	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with Contract disc marking). With better sound quality, dynamic range, and directionality than the traditional Dolby surround technology, you can enjoy the dynamic realistic sound.
PRO LOGIC	A 4 channel analog sound reproduced from a program source such as a videotape or LD with the TITIPRO LOGIC mark. You can enjoy a more realistic, robust sound unavailable from regular stereo sources.